





power yield is not required for the medium/high frequency range. The use of amplifiers with 12V permits a sufficient power yield. The power required for the medium/high frequency range can and will clearly be lower than for the bass range.

[008] The invention will be further explained by means of the drawing.

BRIEF DESCRIPTION OF THE DRAWING

[009] The single drawing figure is a schematic top view of an automobile with an audio system constructed according to a preferred embodiment of the invention.

DETAILED DESCRIPTION OF THE DRAWING

[010] The only figure is a top view of the systematic construction of an audio system according to the invention. An audio signal receiver (radio) 1 is connected with amplifiers 5 and 6 by way of optical waveguides 2 to 4. At least one of the optical waveguides 2 to 4 is a component of a (ring) bus system.

[011] At the beginning and the end of each of the optical waveguides, an electro-optical or opto-electrical transducer is situated which transforms the incoming electrical or optical signals into corresponding optical or electrical signals.

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[011] Subwoofers 7 and 8 for the playback of deep audio frequencies are connected to the output side of the amplifier 5, and medium/high frequency speakers 9 and 10 for the playback of the correspondingly remaining audio frequencies are connected to the output side of the amplifier 6.

[012] According to the invention, the amplifier 5 is supplied with an operating voltage of 42V and the amplifier 6 is supplied with an operating voltage of 12V.

[013] As a result of the galvanic separation of the radio 1 and the amplifiers 5 and 6, electrical interferences, which occur mainly in but also outside the vehicle, are not transmitted to the amplifiers 5 and 6. By means of the amplifier 5, a high power yield can be obtained. Since, as a result, only deep frequencies are amplified and played back by way of the loudspeakers 7 and 8, occurring high-frequency interferences are not noticeable acoustically.

[014] The medium/high frequency speakers 9 and 10 are supplied with a lower operating voltage of 12V. The thus achievable power yield of, for example, 20W, is sufficient also in cases in which the subwoofers 7 and 8 are acted upon by a high power of, for example, 100W. As a result of the lower power requirement, the distortion factor can therefore be minimized.